10/694619

=> dis his

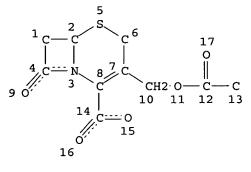
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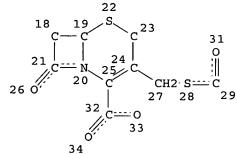
FILE 'CASREACT' ENTERED AT 14:13:57 ON 13 DEC 2005

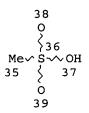
L1 STR
L2 2 S L1
L3 STR L1
L4 1 S L3
L5 1 S L3 FUL

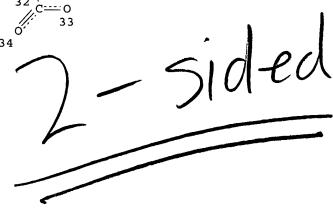
=> d 15 que stat;d fhit bib abs

L3 STR









NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 38

STEREO ATTRIBUTES: NONE

L5 1 SEA FILE=CASREACT SSS FUL L3 (1 REACTIONS)

100.0% DONE 16 VERIFIED 1 HIT RXNS 1 DOCS

SEARCH TIME: 00.00.01

L5 ANSWER 1 OF 1 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 1 A + B ===> C

PATENT NO. KIND DATE APPLICATION NO. DATE 20040708 US 2004132996 **A1** US 2003-694619 PΙ 20031027

PRAI IN 2002-MU938 20021029

MARPAT 141:88965 OS GI

A process for preparation of ceftiofur sodium I (R = Na) possessing high AB stability and having purity of more than 97% and substantially free of impurities, was disclosed. The process comprised reacting cefotaxime or its derivative II (R3 = H, alkali metal, alkaline earth metal, group forming an easily hydrolyzable ester) with 2-thiofuroic acid, employed in a molar proportion of 1.5 to 3.0 mol per mol of II, in the presence of acetonitrile as solvent and in the presence of large excess of methanesulfonic acid, employed in molar proportions of 12 to 18 mol per mol of II, and at a temperature of between -5° C. to 30° C. to give after necessary neutralization of the alkali or alkaline earth metal or removal of the ester group of the 4-carboxylic acid function, wherever applicable, ceftiofur I (R = H), possessing high stability and having purity of more than 97% and substantially free of impurities. Further, converting the ceftiofur to its salt with an organic amine by treating a solution of ceftiofur in a mixture of water and a water-miscible organic solvent with an organic amine, at a temperature ranging from -10° C. to 10° C., reacting of the amine salt thus obtained with a sodium metal carrier in a mixture of water and water-miscible organic solvent and in presence of sodium hydrogen sulfite to give the desired I (R = Na).

=> => dis his

(FILE 'HOME' ENTERED AT 14:13:43 ON 13 DEC 2005)

FILE 'CASREACT' ENTERED AT 14:13:57 ON 13 DEC 2005

L1 STR L2 2 S L1 L3 STR L1 L41 S L3

=> fil reg SINCE FILE COST IN U.S. DOLLARS TOTAL. ENTRY SESSION 242.28 242.07 FULL ESTIMATED COST DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -0.68 -0.68

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STRUCTURE FILE UPDATES: 12 DEC 2005 HIGHEST RN 869770-56-9 DICTIONARY FILE UPDATES: 12 DEC 2005 HIGHEST RN 869770-56-9

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> => dis his l16-;d l16 que stat;d l17 que stat;fil caplus;s (l19 or l20) and l17

L10 STR

COST IN U.S. DOLLARS SINCE FILE TOTAL SESSION ENTRY FULL ESTIMATED COST 323.72 566.00 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -0.68

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FILE COVERS 1907 - 13 Dec 2005 VOL 143 ISS 25 FILE LAST UPDATED: 12 Dec 2005 (20051212/ED)

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8924 L19 7754 L20 500 L17

L21 242 (L19 OR L20) AND L17

=> => dis his 124-; fil caplus

(FILE 'REGISTRY' ENTERED AT 14:25:55 ON 13 DEC 2005) 15649 S L22 FUL

L25 15649 S L24 OR L24

FULL ESTIMATED COST

CA SUBSCRIBER PRICE

L24

L26 6650 S L25 RAN=(,129695-40-5) L27 9000 S L25 RAN=(129695-40-5,)

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION

162.39

0.00

728.84

-0.68

FILE 'CAPLUS' ENTERED AT 14:27:58 ON 13 DEC 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

nine of the most useful models for antimicrobial selection reported to Finally, a virtual screening of 87 new compds. reported in the anti-infective field with antibacterial activities is developed showing the ability of the models to identify new leads as antibacterial. TΤ 61-24-5, Cephalosporin C 153-61-7, Cefalotin 804-53-5 859-07-4, Cefaloram 886-86-2, Metacaine 1421-68-7, Amidefrine mesylate 3577-01-3, Cefaloglycin 8067-09-2, Antibiotic 810A 23239-41-0, Cefacetrile sodium 24356-60-3, Cefapirin sodium 32178-82-8, 7-(5-Amino-5-carboxyvaleramido)-7methoxycephalosporanic acid 33075-00-2, Cefathiamidine 34279-77-1, Cephamycin B 36920-48-6, Cefoxazole **39685-31-9**, Cefuracetime **51159-12-7**, Antibiotic BL-S217 56083-50-2, Antibiotic C-2801X 64485-93-4, Cefotaxime sodium 69132-42-9, Ceftioxide 69200-65-3 80370-57-6, Ceftiofur 82956-11-4, Futhan 89201-82-1 852448-72-7 RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (atom, atom-type, and total nonstochastic and stochastic quadratic fingerprints as promising approach for modeling antibacterial activity) RN 61-24-5 CAPLUS 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, CN 3-[(acetyloxy)methyl]-7-[[(5R)-5-amino-5-carboxy-1-oxopentyl]amino]-8-oxo-, (6R,7R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 153-61-7 CAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[(acetyloxy)methyl]-8-oxo-7-[(2-thienylacetyl)amino]-, (6R,7R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

RN 804-53-5 CAPLUS
CN 2H-Benzo[a]quinolizin-2-one, 1,3,4,6,7,11b-hexahydro-9,10-dimethoxy-3-(2-methylpropyl)-, (3R,11bR)-rel-, methanesulfonate (9CI) (CA INDEX NAME)

CM 1

CM 2

CRN 75-75-2 CMF C H4 O3 S

RN 1421-68-7 CAPLUS

CN Methanesulfonamide, N-[3-[1-hydroxy-2-(methylamino)ethyl]phenyl]-, monomethanesulfonate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 37571-84-9 CMF C10 H16 N2 O3 S

CM 2

CRN 75-75-2 CMF C H4 O3 S

RN 23239-41-0 CAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[(cyanoacetyl)amino]-8-oxo-, monosodium salt,
 (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Na

RN 24356-60-3 CAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-8-oxo-7-[[(4-pyridinylthio)acetyl]amino]-,
 monosodium salt, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Na

RN 32178-82-8 CAPLUS CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,

RN 36920-48-6 CAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[(acetyloxy)methyl]-7-[[[3-(2-chlorophenyl)-5-methyl-4isoxazolyl]carbonyl]amino]-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 39685-31-9 CAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[(acetyloxy)methyl]-7-[[(2Z)-2-furanyl(methoxyimino)acetyl]amino]-8-oxo, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

RN 51159-12-7 CAPLUS
CN Pyridinium, 4-[[2-[[(6R,7R)-3-[(acetyloxy)methyl]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-7-yl]amino]-2-oxoethyl]thio]-1-methyl- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

Na

RN 69132-42-9 CAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]a
 mino]-8-oxo-, 5-oxide, (5S,6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

RN 69200-65-3 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[(5-amino-5-carboxy-1-oxopentyl)amino]-3-[[[3-(4-hydroxyphenyl)-2-methoxy-1-oxo-2-propenyl]oxy]methyl]-7-methoxy-8-oxo-, (6R,7S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

CRN 75-75-2 CMF C H4 O3 S

RN 89201-82-1 CAPLUS

CN 2-Oxazolidinone, 3-[4-[(3-chlorophenyl)methoxy]phenyl]-5-[(methylamino)methyl]-, (5R)-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 84145-89-1 CMF C18 H19 Cl N2 O3

Absolute stereochemistry.

CM 2

CRN 75-75-2 CMF C H4 O3 S

RN 852448-72-7 CAPLUS

L28 1 S (L26 OR L27) AND L21

=> d 15 que stat; d 16 que stat; d 116 que stat; d 118 que stat; d 124 que stat L3 STR

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 38

STEREO ATTRIBUTES: NONE

L5 1 SEA FILE=CASREACT SSS FUL L3 (1 REACTIONS)

100.0% DONE 16 VERIFIED 1 HIT RXNS 1 DOCS

SEARCH TIME: 00.00.01

NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

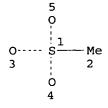
NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE

L16 11557 SEA FILE=REGISTRY SSS FUL L10

L18 11557 SEA FILE=REGISTRY ABB=ON PLU=ON L16 OR L16

L22 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE

L24 15649 SEA FILE=REGISTRY SSS FUL L22

100.0% PROCESSED 389720 ITERATIONS

SEARCH TIME: 00.00.04

15649 ANSWERS

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	5.84	734.68
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.73	-1.41

STN INTERNATIONAL LOGOFF AT 14:29:21 ON 13 DEC 2005